# ALDEN RESOURCES LLC 332 WEST CUMBERLAND GAP PARKWAY, SUITE 100 CORBIN, KENTUCKY 40701

KPDES Individual Permit
DMRE Permit Number 861-0494
KPDES Form 1
KPDES Form C

Prepared August 4, 2009



#### 332 W. Cumberland Gap Pkwy., Ste. 100 Corbin, KY 40701

Phone (606) 523-9760 Fax (606) 523-9519

AUG 0 7 2009

August 4, 2009

ATTN.: Mr. Eric Cleaver Division of Water Surface Water Permits Branch 200 Fair Oaks Lane Frankfort, Kentucky 40601

Re: KPDES Individual Permit Application

DMRE Permit #861-0494 Knox County, Kentucky

Dear Mr. Cleaver:

In response to your letter dated July 13, 2009, please find enclosed a KPDES Individual Permit Application for DMRE Permit No. 861-0494. In addition a "waiver request" is being requested for the KPDES Permit Application Form C under Section V, Part A, subheading 1.f and 1.g due to the outfalls having not discharged since being constructed. Also included with this application packet is the appropriate surface mining permit application filing fee of \$240.00.

Should you have any questions or require additional information, please contact me at (606) 523-9760 or e-mail me at djones@aldenresources.com.

Respectfully submitted,

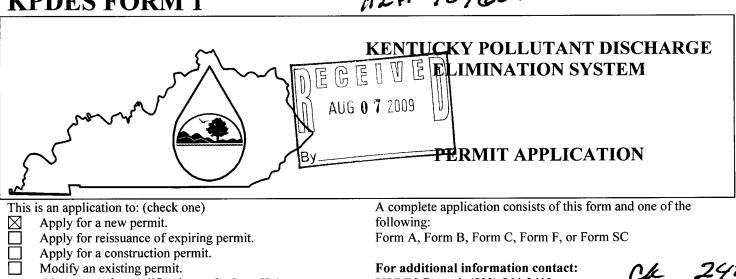
Dennis Jones

**Engineering Technician** 

cc: file

file: Form\_1-cvr.doc

# A1# 104609



ш	mounty an existing permit.		1 or madicionar in		******	111111111			_	~~~
	Give reason for modificati	on under Item II.A.	KPDES Branch	(502)5	64-341	0				
			AGENCY	0	1	0	0		Z	/
I. FA	CILITY LOCATION AN	D CONTACT INFORMATION	USE		<u> </u>		0			
A. Na	ame of Business, Municipali	ty, Company, Etc. Requesting Perm	it						-	
Alden	resources LLC									
B. Fa	acility Name and Location		C. Primary Mai							
			this address). I					if differe	nt) in D	),
Facilit	ty Location Name:		Facility Contact Na	ime and T	Γitle: M	ſr. ⊠ M	[s. ∐			
Bull R	Run Mine		Keith Smith							
Facilit	ty Location Address (i.e. street, roa	d, etc., not P.O. Box):	Mailing Address:							
			222 11/4 (2	1.0	D1	0 4-10	<b>.</b>			
	niles SE of KY HWY 6 & 459 integrates the August 1985 in the State of KY HWY 6 & 459 integrates 1985 in the State of the August 1985 in the State of	rsection & 0.62 miles NE of KY HWY 459	332 West Cumberla	and Gap	Parkway	, Suite 10	JU			
	ty Location City, State, Zip Code:		Mailing City, State	. Zip Cod	ie:					
dom	ty Eccution City, State, 21p Code.		7.7.4	, <b>2.p</b> 000						
	Lake, KY 40921		Corbin, Ky 40701							
	wner's name (if not the same as in p	part A and C):	Facility Contact Te	lephone l	Number:					
N/A			606-523-9760							
Owne	r's Mailing Address: 332 West Cu	mberland Gap Parkwy, Suite 100 Corbin,	Owner's Telephone	Number	r (if diffe	erent):				
KY 40		mooriana dap rankwy, sance 100 corom,	N/A		(11 4111					
			1							
II F	ACILITY DESCRIPTION	1								
		of activities, products, etc: Disharge	of on-bench dugo	ut none	le cons	tructed	to reta	in sedin	nent di	ıring
	surface coal mining operation		or on-benen dugo	ut pone	<b>1</b> 3 <b>C</b> 0113	ili ucica	to retu	iii seaiii	iloiit a	
ì	surface coar minning operation	т.								
D Ct	andard Industrial Classificat	tion (SIC) Code and Description								
		Ton (SIC) Code and Description								
	cipal SIC Code &	1221 Dituminana Caal and Liamite	Suufaaa Minima							
Desc	ription:	1221 Bituminous Coal and Lignite	Surface Mining			<u> </u>				
Od	ara a 1									
Othe	r SIC Codes:	1								

III. FACILITY LOCATION							
A. Attach a U.S. Geological Survey 7 ½ minute quadrangle map for the site. (See instructions)							
B. County where facility is located:	City where facility is located (if applicable):						
Knox	N/A						
C. Body of water receiving discharge:							
UT to Big Indian Creek (Engle Hollow) & Bull Run							
D. Facility Site Latitude (degrees, minutes, seconds):	Facility Site Longitude (degrees, minutes, seconds):						
36° 50' 28.5"	83° 57' 31.8"						
E. Method used to obtain latitude & longitude (see instructions):	Autocad software						

F. Facility Dun and Bradstreet Number (DUNS #) (if applicable): N/A

DEP 7032 - 2 - November 2007

IV. OWNER/OPERATOR INFORMATI	ON					
A. Type of Ownership:  ☐ Publicly Owned ☐ Privately Owner		Both Public and Priv	vate Owned  Federally owned			
3. Operator Contact Information (See instrument Plant Operator:	uctions)	Telephone Number: N/A				
N/A Operator Mailing Address (Street): N/A		IVA				
Operator Mailing Address (City, State, Zip Code): N/A						
Is the operator also the owner? Yes No		Yes No	If yes, list certification class and number below.			
Certification Class: N/A		Certification Number: N/A				
V. EXISTING ENVIRONMENTAL PER Current NPDES Number:	Issue Date of Current Peri	mit:	Expiration Date of Current Permit:			
	N/A		N/A			
N/A Number of Times Permit Reissued:	Date of Original Permit Is	suance:	Sludge Disposal Permit Number:			
N/A	N/A		N/A			
Kentucky DOW Operational Permit #:	Kentucky DSMRE Permit	t Number(s):				
N/A	861-0494		N/A			
Which of the following additional environm	nental permit/registration	on categories will also	apply to this facility?			
CATEGORY	EXISTING PER	RMIT WITH NO.	PERMIT NEEDED WITH PLANNED APPLICATION DATE			
\ir Emission Source	N/A		N/A			
Solid or Special Waste	N/A		N/A			
Hazardous Waste - Registration or Permit	N/A		N/A			
VI. DISCHARGE MONITORING REPO	ORTS (DMRs)					
	to specifically identify	the name and telepho	regular schedule (as defined by the KPDES one number of the DMR official and the DMR			
A. DMR Official (i.e., the department, designated as responsible for submittin Division of Water):		Alden Resources Ll	LC			
DMR Official Telephone Number:		606-523-9760				
B. DMR Mailing Address:						
Address the Division of Water will			nailing address in Section I.C), or Rs for you; e.g., contract laboratory address.			
DMR Mailing Name:	Keith Smith					
DMR Mailing Address: 332 West Cumberland Gap Parkway, Suite 100						
DMR Mailing City, State, Zip Code:	Corbin, KY 40701					

VII. APPLICATION FILING FEE	

KPDES regulations require that a permit applicant pay an application filing fee equal to twenty percent of the permit base fee. Please examine the base and filing fees listed below and in the Form 1 instructions and enclose a check payable to "Kentucky State Treasurer" for the appropriate amount (for permit renewals, please include the KPDES permit number on the check to ensure proper crediting). Descriptions of the base fee amounts are given in the "General Instructions."

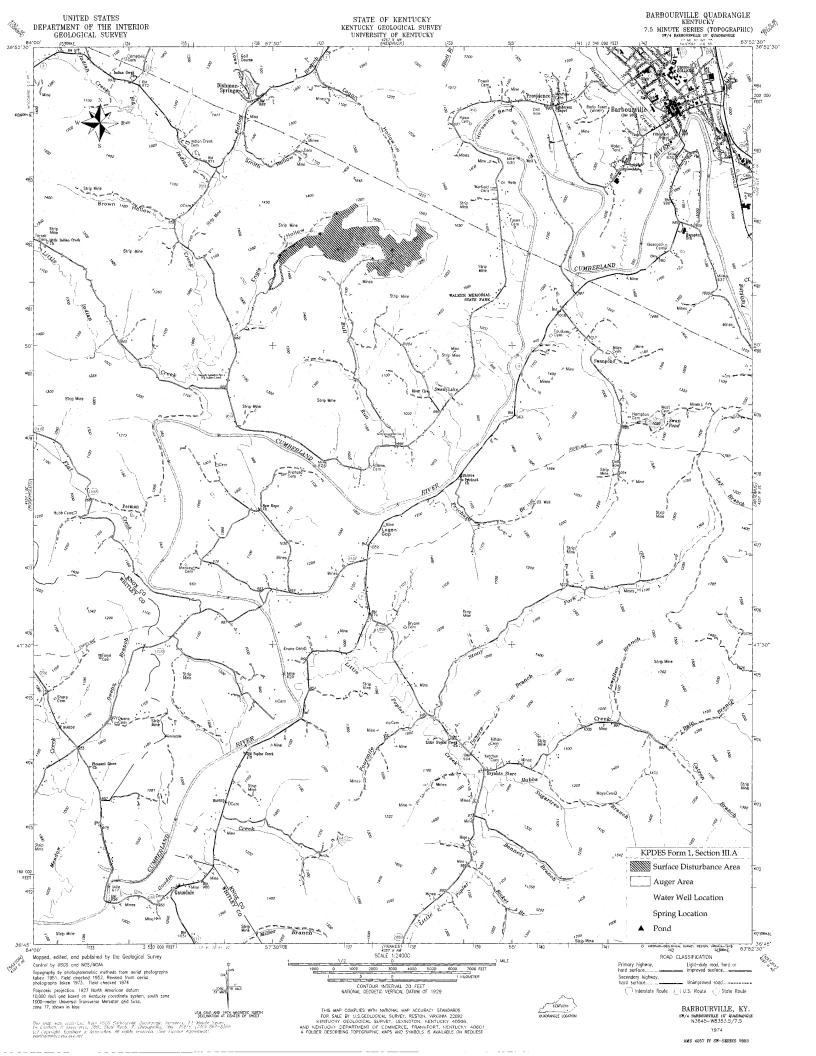
Facility Fee Category:	Filing Fee Enclosed:
Surface Mining Operation	\$240.00

### VIII. CERTIFICATION

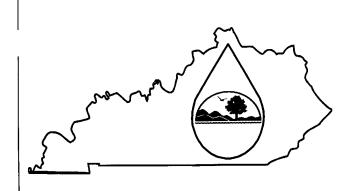
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME AND OFFICIAL TITLE (type or print):	TELEPHONE NUMBER (area code and number):
Mr. Ms. Keith Smith, President	606-523-9760
SIGNATURE	DATE:
76	8-4-09

Return completed application form and attachments to: KPDES Branch, Division of Water, Frankfort Office Park, 14 Reilly Road, Frankfort, KY 40601. Direct questions to: KPDES Branch at (502) 564-3410.



# **KPDES FORM C**



## KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

#### PERMIT APPLICATION

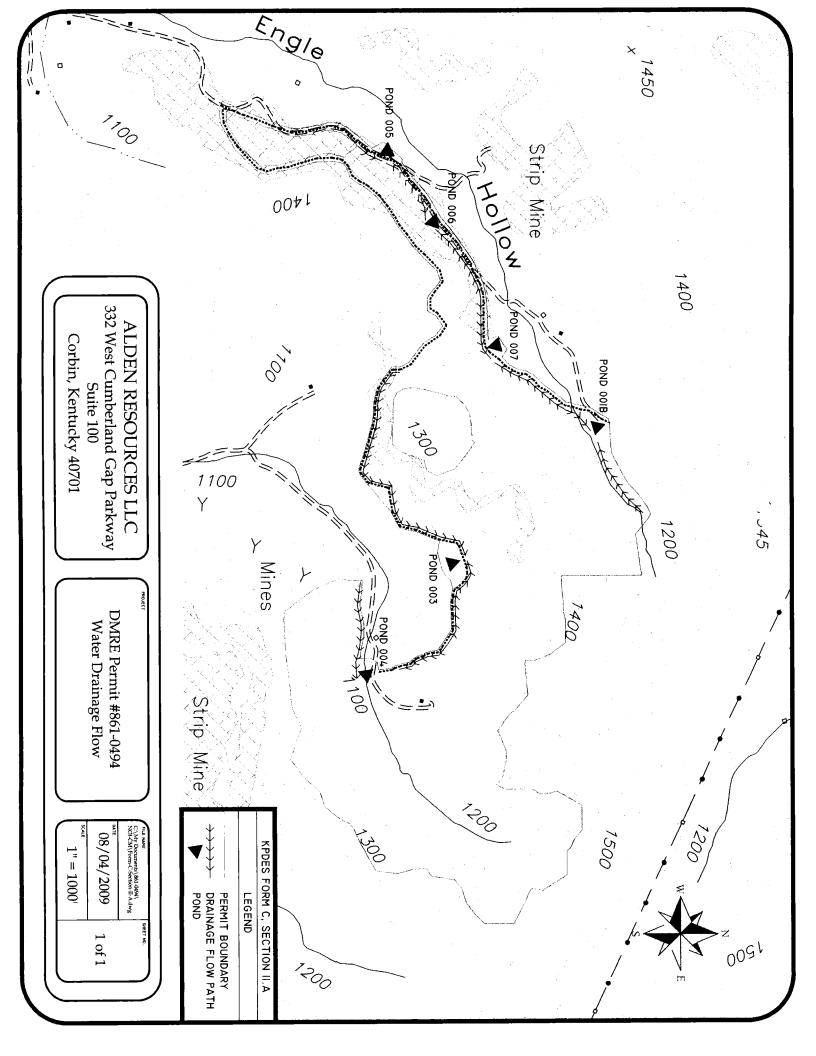
A complete application consists of this form and Form 1. For additional information, contact KPDES Branch, (502) 564-3410.

Name of Facility: B		Coun	ty: Knox										
		AG:	ENCY		i i								
I. OUTFALL LO						JSE						<u> </u>	
For each outfall list	the latitude a	nd longitude o	of its location	to the nea	arest 15	seconds a	nd the	name o	of the	receiv	ing wate	er.	
Outfall No.		LATITUDE			LC	ONGITUD	E						
(list)	Degrees	Minutes	Seconds	Degre	ees	Minutes	Se	conds	R	ECEIV	ING W	ATER (1	name)
See Appendix A													
									T				
									<u> </u>				
							T						
							1						

#### II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfall. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.
- B. For each outfall, provide a description of: (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

OUTFALL NO.	OPERATION(S) CONTRI	BUTING FLOW	TREATM	
(list)	Operation (list)  Avg/Desi Flow (include ur		Description	List Codes from Table C-1
	See Appendix B			
l				
1				



II. FLOWS	, SOURCES OF PO	LLUTION,	AND TRE	ATMENT	TECH	NOLOGIE	S (Continue	ed)		
C. Except for	storm water runoff,	leaks, or spill	s, are any o	f the discha	ırges de	escribed in It	ems II-A or	B inte	ermittent or se	asonal?
	Yes (Complete tl	ne following t	able.)		$\boxtimes$	No (Go	to Section II	I.)		
OUTFALL	OPERATIONS	FREQ	UENCY				FLOW			
NUMBER	CONTRIBUTING FLOW	Days Per Week	Months Per Year		Flow Ra		ł	otal vol ify witl	ume h units)	Duration (in days)
(list)	(list)	(specify average)	(specify average)	Long-Ter Average		Maximum Daily	Long-Tern Average	n	Maximum Daily	
III. MAXIM	IUM PRODUCTIO	N								
			·							
A. Does an e	ffluent guideline lim	itation promu	lgated by E	PA under S	Section	304 of the C	Clean Water	Act ap	pply to your fa	cility?
	Yes (Complete It	tem III-B) Lis	st effluent g	uideline cat	tegory:					
$\boxtimes$	No (Go to Section	n IV)								
B. Are the li	mitations in the appli	icable effluen	t guideline	expressed in	n terms	of production	on (or other	meası	ires of operati	on)?
	Yes (Complete In	tem III-C)	$\boxtimes$	No (Go	to Sec	tion IV)				
. If you ar productio	nswered "Yes" to Ite n, expressed in the te	em III-B, list erms and units	the quanti used in the	ty which r applicable	epresei efflue	nts the actuant guideline,	al measuren and indicate	nent o	of your maxin	num level of
		MAXIMU	M QUANT	ITY					Affected O	utfalls
Quantity Per	r Day Units of	f Measure	О	peration, I	Produc (speci	t, Material, fy)	Etc.		(list outfall n	umbers)
	·									
IV IMPDO	OVEMENTS									
	now required by an	ny federal si	tate or loca	al authority	/ to m	eet any imr	lementation	sche	dule for the	construction
upgrading discharge	g, or operation of was described in this authorcement compliance	vastewater equipolication? T	uipment or his include	r practices s, but is no	or any ot limit	other envited to, perm	ronmental pit conditions	orogra s, adn	ms which mainistrative or	ay affect the
	Yes (Complete th	ne following t	able)		No (C	30 to Item IV	7-B)			
	ION OF CONDITION EMENT, ETC.	AFFEC	TED OUTFA		BRIE	F DESCRIPTI	ON OF PROJ	ECT		PLIANCE DATE
	-	140.	Source of Di	эспагде					Required	Projected

3. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

A,	B, & C:	space provided					d - Annotate the outfall number in the 5-18.	е
D.	which you k	know or have rea		ischarged or ma	ay be dischar	ged from any out	in Table C-3 of the instructions, fall. For every pollutant you list, r possession.	
	POLLU	TANT	SOUI	RCE	P(	DLLUTANT	SOURCE	
VI.	. POTENTI	AL DISCHAR	GES NOT COVE	RED BY ANA	LYSIS			
A.			n V-C a substance rs as an immediate				or produce, or expect to use or	
		Yes (List all su	ich pollutants belo	w)	$\boxtimes$	No (Go to Item	VI-B)	
B.							expected to vary so that your eported in Item V?	
		Yes (Complete	e Item VI-C)	⊠ No	(Go to Item	VII)		
C.	expected lev		utants which you a				ability at this time the sources and over the next 5 years. Continue on	

V. INTAKE AND EFFLUENT CHARACTERISTICS

	ITY TESTING DATA			
Do you have any knowledge of clischarges or on a receiving water	or reason to believe that any biolo er in relation to your discharge wi	gical test for acute or cl thin the last 3 years?	hronic toxici	ty has been made on any of your
Yes (Identify t	he test(s) and describe their purpo	oses below)	⊠ No	o (Go to Section VIII)
				:
VIII. CONTRACT ANALYS				
•	ed in Item V performed by a contr		lting firm?	1
	ame, address, and telephone numb by each such laboratory or firm l		L	No (Go to Section IX)
NAME	ADDRESS	TELEPHO (Area code & n		POLLUTANTS ANALYZED (list)
Fouser Environmental ervicers, LTD.	165 Camden Avenue Versailles, KY 40383	859-873-6211	umber)	pH; Oil & Grease, T; Cyanide, Total; Phenol; Hardness; BOD; TSS; Amonium-N; COD;
				TOC; Nitrate-N; Nitrite-N; Sulfate; Antimony; Arsenic; Beryllium; Cadmium; Chromium, Total; Copper; Iron; Lead; Manganese; Mercury; Nickel; Selenium; Silver; Thallium; Zinc
				Sulfate; Antimony; Arsenic; Beryllium; Cadmium; Chromium, Total; Copper; Iron; Lead; Manganese; Mercury; Nickel; Selenium;
IX. CERTIFICATION				Sulfate; Antimony; Arsenic; Beryllium; Cadmium; Chromium, Total; Copper; Iron; Lead; Manganese; Mercury; Nickel; Selenium;
I certify under penalty of law the with a system designed to assure of the person or persons who me submitted is, to the best of my law.	e that qualified personnel properly anage the system, or those person	gather and evaluate the ns directly responsible ate, and complete. I are	e informatio for gathering n aware that	Sulfate; Antimony; Arsenic; Beryllium; Cadmium; Chromium, Total; Copper; Iron; Lead; Manganese; Mercury; Nickel; Selenium; Silver; Thallium; Zinc  etion or supervision in accordance in submitted. Based on my inquiry get the information, the information there are significant penalties for
I certify under penalty of law the with a system designed to assure of the person or persons who me submitted is, to the best of my law.	e that qualified personnel properly anage the system, or those person knowledge and belief, true, accur cluding the possibility of fine and	gather and evaluate the directly responsible ate, and complete. I are imprisonment for known	e informatio for gathering n aware that wing violatio	Sulfate; Antimony; Arsenic; Beryllium; Cadmium; Chromium, Total; Copper; Iron; Lead; Manganese; Mercury; Nickel; Selenium; Silver; Thallium; Zinc  etion or supervision in accordance in submitted. Based on my inquiry get the information, the information there are significant penalties for
I certify under penalty of law the with a system designed to assure of the person or persons who me submitted is, to the best of my lead to submitting false information, incomparison.	e that qualified personnel properly anage the system, or those person knowledge and belief, true, accur cluding the possibility of fine and	gather and evaluate the directly responsible ate, and complete. I are imprisonment for known	e informatio for gathering n aware that wing violatio ONE NUMBI	Sulfate; Antimony; Arsenic; Beryllium; Cadmium; Chromium, Total; Copper; Iron; Lead; Manganese; Mercury; Nickel; Selenium; Silver; Thallium; Zinc  etion or supervision in accordance in submitted. Based on my inquiry gethe information, the information there are significant penalties for ins.

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

							1	- 1						$\overline{}$			п			
1. POLLUTANT	AND CAS NO.	(if available)	a. Bromide (24959-67-9)	<ul><li>b. Bromine</li><li>Total</li><li>Residual</li></ul>	c. Chloride	d. Chlorine, Total	e Color	f. Fecal Coliform	g. Fluoride (16984-48-8)	h. Hardness (as CaCO <sub>3</sub> )	i. Nitrate – Nitrite (as N)	j. Nitrogen, Total	Organic (as N)	k. Oil and Grease	<ol> <li>Phosphorous         (as P), Total         7723-14-0     </li> </ol>	m. Radioactivity	(1) Alpha, Total	(2) Beta, Total	(3) Radium Total	(4) Radium,
2. MARK	a.	Believed Present								Х				×						
2. MARK "X"	.q	Believed Absent	Х	X	X	<	×	×	Х		×		X		×		Х	Х	X	<
	a. Maximum Daily Value	(1) Concentration								196	<0.5 / <0.25			<2.00						
	aily Value	(2) Mass								196	<0.5 / <0.25			<2.00						
E	b. Maximum 30-Day Value (if available)	(1) Concentration																		
3. EFFLUENT	30-Day ilable)	(2) Mass																		
	c. Long-Term Avg. Value (if available)	(1) Concentration																		
	n Avg. ilable)	(2) Mass																		
	d. No. of	Analyses								1	<b>.</b>			1						
4. UNITS	'n	Concentration								mg/L	mg/L			mg/L						
	ь.	Mass								mg	mg			mg						
INTAK	a. Long-Term Avg Value	(1) Concentration																		
6. INTAKE (optional)	Avg	(2) Mass																		
<u> </u>	No. of	Analyses																		

1. POLLUTANT	l	2. MARK "X"			EFI	3. EFFLUENT				4. UNITS		INTAK	5. INTAKE (optional)	D
And CAS NO.	'n	b.	a. Maximum Daily Value	v Value	b. Maximum 30-Day Value (if available)	0-Day able)	c. Long-Term Avg. Value (if available)	1 Avg. lable)	d. No. of	2	ė.	a. Long-Term Avg. Value	Value	b. No. of
(if available)	Believed Present	Believed Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses	Concentration	Mass	(1) Concentration	(2) Mass	Analyses
n. Sulfate (as SO <sub>4</sub> ) (14808-79-8)	x		127	127					<u>-</u>	mg/L	mg			
o. Sulfide (as S)		×												
p. Sulfite (as SO <sub>4</sub> ) (14286-46-3)		×												
q. Surfactants		X												
r. Aluminum, Total (7429-90)		X												
s. Barium, Total (7440-39-3)		х										:		
t. Boron, Total (7440-42-8)		Х												
u. Cobalt, Total (7440-48-4)		X												
v. Iron, Total (7439-89-6)	Х		0.488	0.488					1	mg/L	mg			
w. Magnesium Total (7439-96-4)		X												
x. Molybdenum Total (7439-98-7)		х												
y. Manganese, Total (7439-96-6)	X		0.252	0.252					1	mg/L	gm			
z. Tin, Total (7440-31-5)		×												
aa. Titanium, Total (7440-32-6)		×												

Part C – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the Testing Required column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Mark "X: in the Believed Absent column for each pollutant you believe to be absent. If you mark either the Testing Required or Believed Present columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

											_			_		_
11M. Silver, Total	10M. Selenium, Total (7782-49-2)	9M. Nickel, Total (7440-02-0)	8M. Mercury Total (7439-97-6)	7M. Lead Total (7439-92-1)	6M. Copper Total (7550-50-8)	5M. Chromium Total (7440-43-9)	4M. Cadmium Total (7440-43-9)	3M. Beryllium Total (7440-41-7)	2M. Arsenic, Total (7440-38-2)	IM. Antimony Total (7440-36-0)	METALS, CYANIDE AND TOTAL PHENOLS	(if available)	And CAS NO.	POLLUTANT	1.	seven pages) for e
×	X	X	X	X	X	X	×	×	×	×	NIDE AND TO	Required	a. Testing			ach outfall. Se
											OTAL PHE	Present	a. Believed		2. MARK "X"	e instruction
				·				·			NOLS	Absent	b. Believed			s for addition
<0.005	010.0>	010.0>	<0.000.0>	010.0>	<0.000	<0.010	<0.0025	<0.005	<0.010	<0.010		(1) Concentration	a. Maximum Daily Value			seven pages) for each outfall. See instructions for additional details and requirements.
<0.005	<0.010	<0.010	<0.0001	<0.010	<0.010	<0.010	<0.0025	<0.005	<0.010	<0.010		(2) Mass	ily Value			irements.
												(1) Concentration	b. Maximum 30-Day Value (if available)		EFF	
												(2) Mass	0-Day lable)		3. EFFLUENT	
												(1) Concentration	c. Long-Term Avg Value (if available)			
												(2) Mass	Avg. lable)			
-  -	_	1	-	1	1	I	1	1	1	-		Analyses	No. of			
mg/L	T/sw	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			a. Concentration		UNITS	
mg 5	Sur	mg	gm	Sur	gm	mg	mg	mg	mg	mg			b. Mass			
												(1) Concentration	Long-Term Avg Value	20	INTAKE	
												(2) Mass		- 1	5. INTAKE (optional)	
													No. of Analyses	ē.		<u>.</u>

Part C - Continued	ed.													
1.	7	2. MARK "X"				3. EFFLUENT	UENT	i	<u> </u>	4. UNITS		5. INTAKE (optional)	optional)	
And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Daily Value	ily Value	b. Maximum 30-Day Value (if available)	Day	c. Long-Term Avg. Value (if available)	e) q.	a. Concentration	b. Mass	a. Long-Term Avg Value		No. of
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	ÿ.	(1) Concentration	) /			(1) Concentration	(2) An Mass	Analyses
METALS, CYANIDE AND TOTAL PHENOLS (Continued)	IDE AND TO	OTAL PHE	NOLS (Cont	inued)								1		
12M. Thallium, Total														
(7440-28-0)	X			< 0.010	<0.010				1	mg/l	mg			
13M. Zinc,														
Total (7440-66-6)	×			<0.010	<0.010					mg/I	mg			
14M. Cyanide,														
1 0181 (57-12-5)	X			<0.01	<0.01				,	mg/L	mg			
15M. Phenols,														
	X			<0.05	<0.05				1	mg/L	mg			
DIOXIN														
2,3,7,8 Tetra-				DESCRIBE RESULTS:	SULTS:									
P, Dioxin			×											
GC/MS FRACTION - VOLATILE COMPOUNDS	ON - VOLA	TILE COMI	POUNDS		:									
1V. Acrolein														
(107-02-8)			X											
2V.														
(107-13-1)			×											
3V. Benzene (71-43-2)			×							-				
5V. Bromoform (75-25-2)			X											
6V. Carbon Tetrachloride									MANAGE III					
(56-23-5)			х											
7V. Chloro-														
benzene (108-90-7)			×											
8V.														
momethane														
(124-48-1)			×											

1.		2. MARK "X"				EFF	3. EFFLUENT				4. UNITS		INTAK	5. INTAKE (optional)	5
And CAS NO.		ھ	7	د		h Marimum 3	n Dav	o I ona-Term	Ava	<b>.</b>	ت	7	a. I ono-Term Ave	Valma	- 1
And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Daily Value	Value	b. Maximum 30-Day Value (if available)	0-Day able)	c. Long-Term Avg. Value (if available)	Avg. able)	No. of	a. Concentration	Mass	Long-Term Avg Value	, Value	No. of Analyses
(if available)	Required	Present	Absent	(£)	(2)	(1)	2	Ξ	(2)	Analyses			(I)	(2)	
				Concentration	Mass	Concentration	Mass	Concentration	Mass				Concentration	Mass	
9V.				į											
Chloroethane			;												
(/4-00-3)			×												
10V. 2-Chloro-															
ethylvinyl Ether			•												
(110-75-0)			>												
11V.															
Chloroform (67-66-3)			×												
12V. Dichloro-															
bromomethane			•												
(/3-/1-0)			>	, , , , , , , , , , , , , , , , , , , ,											
Dichloroethane															
(75-34-3)			×												
15V. 1,2-															
Dichloroethane															
(107-06-2)			×												
16V. 1,1-															
Dichlorethylene			<												
17V 1.2-Di-			;												
chloropropane															
(78-87-5)			×												
18V. 1,3-															
Dichloropro-															
pylene (452-75-6)			×												
19V. Ethyl-															
benzene															
(100-41-4)			×												
20V. Methyl															
Bromide			•												-
(74-83-9)			×												-

Part C - Continued	ed													
1.		2. MARK "X"				EFF	3. EFFLUENT				UNITS		5. INTAKE (optional)	onal)
POLLUTANT													a.	
And CAS NO.	a. Testino	a. Believed	b. Believed	a. Maximum Daily Value	Valme	b. Maximum 30-Day Value (if available)	0-Day	c. Long-Term Avg.	Avg.	No a.	a.	Mass	Long-Term Avg. Value	e No. of
(if available)	Required	Present	Absent	Œ	2)	(1)	(2)	(I)	(2)	Analyses			(1) (2)	
				Concentration	Mass	Concentration	Mass	Concentration	Mass	•			ation !	9
21V. Methyl														
(74-87-3)			×											
22V. Methylene				i										
(75-00-2)			×											
23V. 1,1,2,2-														
Tetrachloro-														
ethane (79-34-5)			×											
24V.														
Tetrachloro-			1											
ethylene (127-18-4)			×		•									
25V. Toluene														
(108-88-3)			×											
26V. 1,2-Trans-														
Dienioro-			<											
(156-60-5)			>											
27V. 1,1,1-Tri-														
chloroethane			×											
28V. 1,1,2-Tri-														
chloroethane														
(79-00-5)			X											
29V. Trichloro-														
ethylene (79-01-6)			×											
30V. Vinyl														
Chloride			₹											
(73-10-4)			۸											

Part C - Continued	ed														
jana.		2. MARK "X"				EFFE	3. EFFLUENT				4. UNITS		5. INTAKE (optional)	ptional)	
POLLUTANT And CAS NO.		a.	ъ.		•	b. Maximum 30-Day	)-Day	c. Long-Term Avg.	Avg.	d	a.	ъ.	a. Long-Term Avg Value		b. No. of
(if available)	Required	Present	Absent	(1) (2) Concentration Mass	(2) Mass	(1) Concentration	(2) Mass	(1) (2) Concentration Ma	(2) Mass	Analyses	Concentiation	17 18 25 25	(1) (Concentration M	(2)	Amaryous
GC/MS FRACTION - ACID COMPOUNDS	ON - ACID	COMPOUN	DS										<b> </b>		
1A. 2-Chloro- phenol						į									
(95-57-8)			X												
2A. 2,4-															
Oronhenol			Υ												
(120-83-2)			>				····								
3A.															
vinhenol			×												
(105-67-9)			1												
4A. 4,6-Dinitro-															
o-cresol (534-52-1)			×												
5A. 2,4-Dinitro-															
phenol			×												
6A. 2-Nitro-			,												
phenol															
(88-75-5)			×												
7A. 4-Nitro-															
phenol (100-02-7)			×												
8A. P-chloro-m-															
cresol (59-50-7)			×												
9A.															
Pentachioro- phenol			×												
(87-88-5)															
10A Phenol															
(108-05-2)			Х												
11A. 2,4,6-Tri-															
chlorophenol (88-06-2)			×												
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS	ON - BASE/I	NEUTRAL	COMPOUN	SC											
1B. Acena-															
phthene			<												
(83-32-9)			×												

ANT  a.  NO.  Testing  Believed  NO.  Testing  Believed  Present  Absent  X  X  X  X  X  X  X  X  X  X  X  X  X	No.   Testing   Believed   Believed   Believed   Believed   Believed   December   About   Cancentration   Mass   Cancentration   Cancentration   Mass   Cancentration   Cancentration   Mass   Cancentration   Cance	-		2. MARK "X"				1333	3.	,			4.		INTAKI	5.	
NO. Testing Believed Maximum Jahly value Value (Irvahilably) Repeated Absent Absent (III) Mass (IIII) Value (Irvahilably) Repeated Absent (IIII) Mass (IIIII) Mass (IIIIIIIII) Mass (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	NO. Tating Bellevel Deleived Register Age of Regulared Personne Management Age of Regulared Personne Management About Concentration Mass Concentra	POLLUTANT						1							<b>2</b>		
Deb	Birth	And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Dailv	Value	b. Maximum 30 Value (if avails	-Day able)	c. Long-Term Value (if availa	Avg.	No. of	a. Concentration	b. Mass	Long-Term Avg	; Value	No. of Analyses
ACCTION - BASE/NEUTRAL COMPOUNDS (Continued)  x  x  x  x  x  x  x  x  x  x  x  x  x	ACCTION - BASE/NEUTRALI COMPOUNDS (Continued)  x  x  x  x  x  x  x  x  x  x  x  x  x	(if available)	Required	Present	Absent	(1)		(1)	X (2)	(1)	Ž (2)	Analyses			(1)	(2)	
CONDA PART   CONTROL   C	COVINS PRACT   ION - BASIN/BUTTAL COMPOUNDS (continued)					Concentration	H	COURCELL! WITHOU	141433	Concentration	CCPIAT				Concenti atton	CCDIAL	
		GC/MS FRACTI	ON - BASE/I	NEUTRAL	COMPOUNI	OS (Continued)											
		2B. Acena-						·									
		pntylene (208-96-8)			×												
2.7) 2.7) 3a)- 10zo- 10z	(a)- (a)- (a)- (b)- (b)- (b)- (c)- (c)- (c)- (c)- (c)- (c)- (c)- (c	3B. Anthra-															
(a)- (a)- (a)- (b)- (b)- (c)- (d)- (d)- (d)- (d)- (d)- (d)- (d)- (d	(a)- (a)- (a)- (b) (ghl) (ghl) (k)- (k)- (k)- (k)- (k)- (k)- (k)- (k)	cene															
(a)- (a)- (ghl) (ghl) (g	(a)- (a)- (a)- (b)- (b)- (c)- (d)- (d)- (d)- (d)- (d)- (d)- (d)- (d	(120-12-7)			X												
(a)- (a)- (a)- (b)- (b)- (c)- (d)- (d)- (d)- (d)- (d)- (d)- (d)- (d	(a)- (a)- (b) (ghl) (ghl) (k)- (k)- (k)-	4B.															
(a). (a). (b). (ghl) (gh	(a)- (a)- (b) (ghl) (k)- (k)- (k)- (k)- (k)- (k)- (k)- (k)	(92-87-5)			×												
ne n	ne enzo- enzo- (ghi) (ghi) ) Bis(2- )	5B. Benzo(a)-															
o(a)- enzo- enzo- y o(ghl) o(k)- o(k)- nne one one one one one one one one one	o(a)- o(a)- enzo- enzo- y o(ghi) o(k)- o(k)- o(k)- o(h)- o(h	anthracene															
o(a)- enzo- enzo- y o(ghl) ) o(k)- ne ) Bis(2-	o(a)- enzo- enzo- y o(ghi) o(ghi) ) bis(2- y 1)-	(56-55-3)			X												
enzo- enzo- y o(ghi) ) b(k)- ne y Bis(2-	enzo- enzo- ) ) )(ghi) ) )(k)- ine )) Bis(2-	5B. Benzo(a)-															
enzo-	enzo- ne ) )(ghl) ) Bis(2-  1)-	yrene 50-32-8)			×												
nne ) )(ghl) ) Bis(2-	ne ) ) o(ghl) ) Bis(2-  1)-	7B. 3,4-Benzo-															
) (ghl) (ghl) (h) (h) (h) (h) (h) (h) (h) (h) (h) (h	) (ghl) (ghl) (h) (h) (h) (h) (h) (h) (h) (h) (h) (h	fluoranthene			•												
o(ghl) ) ) Bis(2-	o(ghi) ) ) Bis(2-	205-99-2)			×												
) bne ) Bis(2-	) o(k)- one n) Bis(2-	B. Benzo(ghl)															
bis(2-	Dis(2-	erylene 191-24-2)			×												
Bis(2-	Bis(2-	B. Benzo(k)-														***************************************	
Bis(2-	Bis(2-	luoranthene															
Bis(2-	Bis(2-	207-08-9)			×												
Ţ																	
		ethovy)-			×												
		nethane															
is pyl)-	is i	111-91-1)															
r- pyl)-	is is -1	IB. Bis															
pyl)-	(i.s. d. i.s.	2-chlor-															
is is	is	isopropyl)-			×												
	e e	2B. Bis															
	.7)	2-ethvl-															
	e -7)	exyl)-			×												
	117-81-7)	hthalate															

Part C - Continued	ed														
		2. MARK "X"				EFF	3. EFFLUENT				4. UNITS		INTAK	5. INTAKE (optional)	j)
And CAS NO.	a. Testino	a. Relieved	b.	a. Maximum Daily Value	/ Value	b. Maximum 30-Day Value (if available)	0-Day	c. Long-Term Avg. Value (if available)	Avg.	N d.	a. Concentration	Mass	a. Long-Term Avg Value	g Value	No. of
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	,
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (Continued)	ON - BASE/I	NEUTRAL	COMPOUN	DS (Continued)											
13B. 4-Bromo-															
phenyl			<												
(101-55-3)			>												
14B. Butyl-															
benzyl			:												
phthalate (85-68-7)			×												
15B. 2-Chloro-															
naphthalene (7005-72-3)			× 												
16B. 4-Chloro-															
phenyl phenyl ether			× 												
(7005-72-3)															
17B. Chrysene			<b>.</b>												
18B. Dibenzo-															
(a,h)															
Anthracene (53-70-3)			×												
19B. 1,2-								;							
benzene			×												
20B. 1,3-															
Dichloro-															
Benzene (541-73-1)			×												
21B. 1,4- Dichloro-															
benzene			×												
77B 3 3															
Dichloro-															
benzidene			×												
23B. Diethyl															
Phthalate			<b>&lt;</b>												
(2,000-40)															

Part C - Continued	ed														
1.		2. MARK "X"				EFF	3. EFFLUENT		-		UNITS		5. INTAKE (optional)	(optional)	
And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Daily Value	Value	b. Maximum 30-Day Value (if available)	0-Day	c. Long-Term Avg. Value (if available)	N ve	d.	a. Concentration	Mass	a. Long-Term Avg. Value		b. No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	ss )	Analyses			(1) Concentration	(2) Mass	•
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (Continued)	ON - BASE/I	NEUTRAL (	COMPOUN	DS (Continued)				₹ ŀ					┨╏		
24B. Dimethyl Phthalate															
(131-11-3)			X												
25B. Di-N-															
(84-74-2)			×												
26B.															
2,4-Dinitro-			1												
(121-14-2)			>												
27B.															
toluene			×												
(606-20-2)															
28B. Di-n-octyl															
(117-84-0)			×												
29В. 1,2-															
hydrazine (as			× 												
azonbenzene)															
(122-00-7)															
Fluoranthene															
(208-44-0)			×												
31B. Fluorene			×												
32B.															
benzene (118-71-1)			×									,			
33В.															
Hexachloro- butadiene			× 												
(87-68-3)															
34B.															
Hexachloro- cvclopenta-			× 												
diene															
(77-47-4)															

Part C - Continued															
	7	2. MARK "X"				EFF	3. EFFLUENT			• • • • •	4. UNITS		5. INTAKE (optional)	optional)	
POLLUTANT And CAS NO.	'n	je	- 1	ë.		b. Maximum 30-Day	0-Day	c. Long-Term Avg.	Avg.	ţ.		ь.	a. Long-Term Avg Value	/alue	b. No. of
(if available)	Required	Present	Absent	(1) (2) Concentration Mass	(2)	Value (if available) (1) (2) Concentration Ma	(2)	Value (If available) (1) (2) Concentration Ma	(2)	Analyses	Concentration	Mass	(1)	(2)	Analyses
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (Continued)	ON - BASE/I	NEUTRAL	COMPOUN	DS (Continued)				L					╽┟		
35B. Hexachlo- roethane															
(67-72-1)			×												
36B. Indneo-															
(1,2,3-oc)-			<												
(193-39-5)			*												
37B.															
(78-59-1)			×												
38B.															
(91-20-3)			×												
39B.															
benzene			×												
(98-95-3)															
dimethyl-															
amine (62.75.0)			×												
41B.															
N-nitrosodi-n-															
propylamine (621-64-7)			×				,								
42B. N-nitro-															
sodipnenyi-			<												
(86-30-6)			>												
43B. Phenan-															
threne (85-01-8)			×												
44B. Pyrene (129-00-0)			×												
45B. 1,2,4 Tri-						•									
chloro-			<												
(120-82-1)			>												

rari C - Conunided	Tea	٠					١				*			h	
1.		MARK "X"				EFI	EFFLUENT				UNITS		INTAK	INTAKE (optional)	
And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Daily Value	Value	b. Maximum 30-Day Value (if available)	30-Day	c. Long-Term Avg. Value (if available)	Avg.	N d.	a.	b.	a. Long-Term Avg. Value	g. Value	No. of
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses		•	(1) Concentration	(2) Mass	
GC/MS FRACTION - PESTICIDES	ON – PESTI	CIDES													
1P. Aldrin (309-00-2)			×												
2P. α-BHC (319-84-6)			×												
3P. β-BHC (58-89-9)			×	-							Accommodition of				
4P. gamma-BHC (58-89-9)			×												
5P. δ-BHC (319-86-8)			×												
6P. Chlordane (57-74-9)			×			The state of the s									
7P. 4,4'-DDT (50-29-3)			×												
8P. 4,4'-DDE (72-55-9)			×								-				
9P. 4,4'-DDD (72-54-8)			×												
10P. Dieldrin (60-57-1)			×	-											
11P. α- Endosulfan (115-29-7)			X												,
12P. β- Endosulfan (115-29-7)			Х												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			Х												

DOLLUTIAN   Table   Believed   Maximum 3h by vinc   And CAS NO.   Table   Believed   Maximum 3h by vinc   And CAS NO.   Table   Believed   Maximum 3h by vinc   And CAS NO.   Table   Maximum 3h by vinc   And Cat No.   Table   Maximum 3h by vinc   And Cat No.   Table   Maximum 3h by vinc   And No.   Table   Maximum 3h by vinc   Maximum 3h b	Part C - Continued	ď														
Testing   Believed   Believed   Mastinum Dality Value   Clarification   Mass   Concentration	1.		2. MARK "X"				e Fe	3. LUENT	:			4. UNITS		INTAK	5. E (optional	I)
Trefute   Believed   Believed   Present   Aboent   Aboent   Concentration   Mass   Concentration   Concentration	POLLUTANT And CAS NO.		Þ		<b>4</b>		h Maximum 3	0-Dav	c Long-Term	Ava.	J.	<b>S</b>	<del>-</del>	a. Lono-Term Ave	Value	
Required   Present   Absent   City   City	Alla CAS NO.	a. Testing	a. Believed	Believed	a. Maximum Daily \	Value	D. Maximum 3 Value (if avail	0-Day lable)	c. Long-Term Value (if avail:	AVg. able)	No. of	a. Concentration	Mass	Long-Term Avg	y value	Analyses
ON-PESTICIDES  X  X  X  X  X  X  X  X  X  X  X  X  X	(if available)	Required	Present	Absent		(2) Mass	(1) Concentration	(2) Mass	$\overline{}$	Mass	Analyses			(1) Concentration	(2) Mass	
	GC/MS FRACTION	ON - PESTI	CIDES		ŀ				- 1							
	15P. Endrin														:	
	Aldehyde (7421-93-4)			×				•								
	(1421-25-4)			>		ļ										
	16P Heptachlor (76-44-8)			×												
	17P. Heptaclor	·														
	Epoxide (1024-57-3)			X												
	18P. PCB-1242															
	(33469-21-9)			<b>*</b>												
	19P. PCB-1254 (11097-69-1)			×			:									
	20P. PCB-1221			<	· · · · · · · · · · · · · · · · · · ·											
	21P. PCB-1232								•							
	(11141-16-5)			<b>×</b>												
	12P. PCB-1248 12672-29-6)			X												
	23P. PCB-1260 11096-82-5)			X												
	24P. PCB-1016 12674-11-2)			X		878 mm										
	25P. Toxaphene			<b>!</b>												

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

i. pH	h. Temperature (summer)	g. Temperature (winter)	f. Flow (in units of MGD)	e. Ammonia (as N)	d. Total Suspended Solids (TSS)	c. Total Organic Carbon (TOC)	b. Chemical Oxygen Demand (COD)	a. Biochemical Oxygen Demand (BOD)	1. POLLUTANT		Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details	V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)
MINIMUM 7.34	VALUE	VALUE	VALUE	0.17		2.07	<10	۵	a. Maximum Daily Value (1) (2) Concentration Mass		provide the result	EFFLUENT CH
MAXIMUM 7.34	8.3	WR	WR	7 0.17	2	7 2.07	0 <10	3	Daily Value (2) Mass		ts of at least one a	IARACTERIST
MINIMUM	VALUE	VALUE	VALUE						b. Maximum 30-Day Value (if available) (1) (2) Concentration Mass		nalysis for every p	ICS (Continued f
MAXIMUM							Action of the contract of the		30-Day Value ilable) (2) Mass	2. EFFLUENT	ollutant in this tab	rom page 3 of Fo
	VALUE	VALUE	VALUE						c. Long-Term Avg. Value (if available) (1) (2) Concentration Mass		ile. Complete one	rm C)
									n Avg. Value ilable) (2) Mass		able for each outfa	
1	1			1	1	1	<u>-</u>	1	d. No. of Analyses		II. See instructions	
STA				mg/L	mg/L	mg/L	J/gm	mg/L	a. Concentration	3. UNITS (specify if blank)	s for additional det	
STANDARD UNITS 7.34	8.3 °c	ိင	MGD	mg	gm	ıng		gm	b. Mass	VITS if blank)	ails.	
	VALUE	VALUE	VALUE						Long-Term (1) Concentration			OUTFALL NO. Site #2 – Bull Run
										4. INTAKE (optional)		). Il Run
									b. No of Analyses			

Part B - In the MARK "X" column, place an "X" in the <u>Believed Present</u> column for each pollutant you know or have reason to believe is present. Place an "X" in the <u>Believed Absent</u> column for each pollutant you believe to be absent. If you mark the <u>Believed Present</u> column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

(4) Radium, 226, Total	(3) Radium Total	(2) Beta, Total	(1) Alpha, Total	m. Radioactivity	l. Phosphorous (as P), Total 7723-14-0	k. Oil and Grease	J. Nitrogen, Total Organic (as N)		h. Hardness (as CaCO <sub>3</sub> )	g. Fluoride (16984-48-8)	f. Fecal Coliform	e. Color	d. Chlorine, Total Residual	c. Chloride	o. Bromine Total Residual		(if available)	AND CAS NO.	I. POLLUTANT	requirements.
						×			×								Believed Present	a	MARK	
X	X	X	X		×		×	×		×	X	X	×	X	×	×	Believed Absent	b.	MARK "X"	
						<2.00		<0.5 / <0.25	300								(1) Concentration	a. Maximum Daily Value		
						<2.00		<0.5 / <0.25	300								(2) Mass	ily Value		
																	(1) Concentration	b. Maximum 30-Day Value (if available)	EI	
																	(2) Mass	30-Day ilable)	3. EFFLUENT	,
																	(1) Concentration	c. Long-Term Avg. Value (if available)		
																	(2) Mass	n Avg. ilable)		
						1		_	_								Analyses	d. No. of		
						J/8w		mg/L	mg/L								Concentration	'n	4. UNITS	
						mg		mg	mg								Mass	<b>.</b>		
																	(1) Concentration	a. Long-Term Avg Value	INTAK	
																	(2) Mass	Avg	6. INTAKE (optional)	
																	Analyses	No. of		

Part B - Continued	ed													
1. POLLUTANT		2. MARK "X"			EF	3. EFFLUENT				4. UNITS		INTAK	5. INTAKE (optional)	Ē
And CAS NO.	N.	b.	a. Maximum Daily Value	v Value	b. Maximum 30-Day Value (if available)	0-Day lable)	c. Long-Term Avg. Value (if available)	Avg.	d. No. of	<b>1</b>	-	a. Long-Term Avg. Value	Value	No. of
(if available)	Believed Present	Believed Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses	Concentration	Mass	(1) Concentration	(2) Mass	Analyses
n. Sulfate (as SO <sub>4</sub> ) (14808-79-8)	х		184	184					1	mg/L	mg			
o. Sulfide (as S)		X												
p. Sulfite (as SO <sub>4</sub> )		X												
(14286-46-3)														
q. Surfactants		×												
r. Aluminum, Total (7429-90)		×												
s. Barium, Total (7440-39-3)		X												
t. Boron, Total (7440-42-8)		Х												
u. Cobalt, Total (7440-48-4)		X												
v. Iron, Total (7439-89-6)	X		0.331	0.331					1	mg/L	mg			
w. Magnesium Total (7439-96-4)		X												
x. Molybdenum Total (7439-98-7)		Х												
y. Manganese, Total	<b>‹</b>		9110	0116					-	ma/I	3			
z. Tin, Total (7440-31-5)		X												
aa. Titanium, Total (7440-32-6)		×												

Part C – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the Testing Required column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Mark "X: in the Believed Absent column for each pollutant you believe to be absent. If you mark either the Testing Required or Believed Present columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

1.	7	2. MARK "X"				3. EFFLUENT	UENT				4. UNITS		5. INTAKE (optional)	ıō. ∣
POLLUTANT And CAS NO.		'n	Þ.	'n		b. Maximum 30-Day	)-Day	c. Long-Term Avg.	Avg.	d.	e .	b.	a. Long-Term Avg Value	vg Value
(if available) R	Required	Believed Present	Absent	Maximum Daily Value (1) (2)	y Value (2)	Value (if available)	able)	Value (it availa	(2)	No. of Analyses	Concentration	Mass	E E	2)
				Concentration	Mass	Concentration	Mass	Concentration	Mass	,			Concentration	1
METALS, CYANIDE AND TOTAL PHENOLS	E AND TO	TAL PHE	NOLS											
1M. Antimony Total	` 			200						•	<b>i</b>			
					<0.010						c :	d		****
2M. Arsenic, Total (7440 38 2)	,			200	0000					-				
ium				0	0					,	9	å		
Total (7440-41-7) X				<0.005	<0.005					-	mg/L	mg		
4M. Cadmium Total														
(7440-43-9) X				<0.0025	<0.0025	2					mg/L	mg		
5M. Chromium Total														
(7440-43-9) X				<0.010	<0.010					_	mg/L	mg		
6M. Copper Total (7550-50-8) X				<0.010	<0.010					<b>-</b>	mg/L	mg		
						******								
(/439-92-1) A				<0.010	<0.010					-	mg/L	mg		
	,				) ) )						ì			
0M Nickel				<0.0001	<0.0001						mg/L	mg		
9M. Nickel, Total														
(7440-02-0) X				<0.010	<0.010					_	mg/L	mg		
10M. Selenium,														
(7782-49-2) X				<0.010	<0.010						mg/L	mg		
11M. Silver, Total														
(7440-28-0) X				<0.005	<0.005						mg/L	mg		

Part C - Continued	led	•													
1.	7	2. MARK "X"				3. EFFLUENT	JENT				4. UNITS		INTAKE (optional)	ptional)	
And CAS NO.	'n	'n	b.	ņ		b. Maximum 30-Day	Day	c. Long-Term Avg.	άģ	۴	'n	è	a. Long-Term Avg Value		. <del></del>
(if available)	Required	Present	Absent	(1) Value (2)	(2)	(1) (2	2) (5)	(1) (2)	(2)	Analyses	Concentration	Mass	(1)	(2) Ana	Analyses
				Concentration	_	ation	_	ation	Mass				ation	Ĺ	
METALS, CYANIDE AND TOTAL PHENOLS (Continued)	NIDE AND TO	OTAL PHE	NOLS (Cont	tinued)			ŀ	1							
12M. Thallium,															
(7440-28-0)	X			<0.010	<0.010					1 	mg/l	mg			L
13M. Zinc, Total															
(7440-66-6)	Χ			<0.010	<0.010	İ				_	mg/L	mg			
14M. Cyanide,									••••						
(57-12-5)	×			<0.01	<0.01					-	mg/L	mg			
15M. Phenols,															
	X			<0.05	<0.05						mg/L	mg			
DIOXIN															
2,3,7,8 Tetra-				DESCRIBE RESULTS:	SULTS:										
P, Dioxin			×												
GC/MS FRACTION - VOLATILE COMPOUNDS	ON – VOLA	TILE COM	POUNDS												
1V. Acrolein															
(107-02-8)			×				_		_						
2V.															
Acrylonitrile (107-13-1)			×												
3V. Benzene (71-43-2)			×												
5V. Bromoform (75-25-2)			×										-		
6V. Carbon															
(56-23-5)			X												
7V. Chloro-															
benzene (108-90-7)			×												
8V. Chlorodibro-															
momethane															
(124-48-1)			Х						_						

Part C - Continued	ed									1					
1.		2. MARK "X"				नुसुन	3. EFFLUENT				4. UNITS		INTAK	5. INTAKE (optional)	5
POLLUTANT And CAS NO.		Þ	b.	'n		b. Maximum 3	0-Day	c. Long-Term	λö V	و.	'n	ъ.	a. Long-Term Avg Value	. Value	b. No. of
(if available)	Testing Pegnired	Believed	Believed	18	Value	Value (if available)	able)	Value (if available)	ble	No. of	Concentration	Mass		غ ا	Analyses
(II available)	Kequired	Fresent	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	Mass	Analyses			(1) Concentration	(2) Mass	
9V.															
(74-00-3)			×												
10V. 2-Chloro-															
ethylvinyl Ether (110-75-8)			×												
11V.															
(67-66-3)			×												
12V. Dichloro-															
(75-71-8)			×												
14V. 1,1-															
(75-34-3)			×												
15V. 1,2-															
(107-06-2)			×												
16V. 1,1-															
(75-35-4)			×												
17V. 1,2-Di-															
(78-87-5)			X												
18V. 1,3-															
pylene			×												
(452-75-6)															
19V. Ethyl-															
(100-41-4)			Х												
20V. Methyl															
(74-83-9)			×												

Part C - Continued	ē.	į													
-		2. MARK "X"				EFF	3. EFFLUENT				4. UNITS		INTAKI	5. INTAKE (optional)	D
POLLUTANT		,	F	>		L Marinana 2	7	A I And Tarm	A	٠.	,	,	a.	Valua	- 1
Alla CAS NO.	a. Testing	a. Believed	Believed	a. Maximum Daily Value	y Value	b. махітит этраў Value (if available)	able)	c. Long-Term Avg. Value (if available)	able)	No. of	a. Concentration	Mass	Long-Term Avg. value	. Value	Analyses
(if available)	Required	Present	Absent	(1)	(2)	<b>(1)</b>	(2)	(L)	(2)	Analyses			(1)	(2)	
				Concentration	Mass	Concentration	Mass	Concentration	Mass				Concentration	Mass	
21V. Methyl															
(74-87-3)			×												
22V. Methylene															
(75-00-2)			X												
23V. 1,1,2,2-															
ethane			∢												
(79-34-5)			>												
24V.															
l'etrachloro-			ŧ												
ethylene (127-18-4)			×												
23 V. 1 OIUEIIE			<b>&lt;</b>												
26V 1.2-Trans-			;												
Dichloro-															
ethylene			×												
(156-60-5)															
27V. 1,1,1-Tri-															
chloroethane (71-55-6)			×		***************************************										
28V. 1,1,2-Tri-															
(79-00-5)			×												
29V. Trichloro-															
ethylene (79-01-6)			×												
30V. Vinyl															
Chloride			<												
(/3-10-4)			>												

OCTION - ACID COMPOUNDS  X  X  X  X  X  X  X  X  X  X  ACTION - BASE/NEUTRAL COMPOUNDS	Part C - Continued  1. POLLUTANT And CAS NO. (if available)  F	a. Testing	2. MARK "X" a. Believed Present	b. Believed Absent	Maximum Daily Value (1) (2) Concentration Mass	y Value (2) Mass	——  ii 30   F	c. Long-Term / Value (if availa (1) Concentration	d. No. of Analyses		4. UNITS a. Concentration	UNITS  a. b.  Concentration Mass	b. Mass
IA. 2-Chlorophenol	GC/MS FRACT	Required ION - ACID	Present	Absent	(1) Concentration	(2) Mass	ation		ation	(2) Mass	(2) Mass	(2) Mass	(2) Analyses Conc
2A. 2.4-27-27 2A. 2.4-27-27 Corphenol Corpheno	1A. 2-Chloro- phenol			∢									
Orophenol (1/20-83-2)  A. 4-Dimeth- (1/20-83-2)  A. 4-Dimeth- (1/20-87-2)  A. 4-Dimeth- (1/20-87-2)  A. 4-C-Dinitro- (1/20-87-2)  A.	2A. 2,4- Dichlor-												
3.A. 2,4-Dimeth. 2,4-Dimeth. 2,4-Dimeth. 2,4-Dimitro- o-cresol (105-67-9) 4.A. 4,6-Dimitro- phenol (51-38-5) 5.A. 2,4-Dinitro- phenol (51-38-5) 6.A. 2-Nitro- phenol (188-75-5) 7.A. 4-Nitro- phenol (100-02-7) 8.A. P-chloro-m- cresol (109-20-7) 9.A. Pentachloro- phenol (108-78-5) (87-38-5) 10.A. Phenol (108-05-2) 11.A. 2,4,6-Tri- chlorophenol (188-06-2) 12. A. COMPOUNDS	Orophenol (120-83-2)			×									
yyhenol       X         (105-67-9)       X         4A. 4.6-Dinitro-ocresol       X         (534-52-1)       X         5A. 2.4-Dinitro-phenol       X         phenol       X         (51-28-5)       X         (6A. 2-Nitro-phenol       X         phenol       X         (88-75-5)       X         A. P-Rihoro-m-cresol       X         (100-02-7)       X         8A. P-Rihoro-m-penal (59-50-7)       X         8A. P-Rihoro-m-phenol       X         (39-50-7)       X         9A.       X         10A. Phenol       X         (108-05-2)       X     <	3A. 2.4-Dimeth-			·									
4A. 4.6-Dinitro- o-cresol (534-52-1) 5A. 2.4-Dinitro- phenol (51-28-5) (52-28-5) (53-2	ylphenol (105-67-9)	•		×									
SA. 24-Dinitro-  SA. 24-Dinitro-  phenol (51-28-5)   X   X   SA. 24-Dinitro-  phenol (51-28-5)   X   X   SA. 24-Dinitro-  phenol (88-75-5)   X   X   SA. 24-Dinitro-  phenol (100-02-7)   X   X   X   SA. P-chloro-m-  cresol (59-50-7)   X   X   Pentachloro-  phenol (108-05-2)   X   X   Pentachloro-  phenol (108-05-2)   X   X   SA. P-chloro-  Phenol (108-05-2)   X   X   X   Y   Y   Y   Y   Y   Y   Y	4A. 4,6-Dinitro- o-cresol												
(51-28-5) X X (51-28-5) X X (88-75-5) X X (88-75-7) X X X (88-75-7) X X X X (88-75-7) X X X X X X X X X X X X X X X X X X X	5A. 2,4-Dinitro- phenol			,									
phenol (88-75-5)	(51-28-5)			×				+-					
7A. 4-Nitro- phenol (100-02-7)  8A. P-chloro-m- cresol (59-50-7)  9A. Pentachloro- phenol (87-88-5)  10A. Phenol (108-05-2)  11A. 2,4,6-Tri- chlorophenol (88-06-2)  11B. Acena- phthene	6A. 2-Nitro- phenol (88-75-5)			×									
8A. P-chloro-m- cresol (59-50-7)  9A. Pentachloro- phenol (87-88-5)  10A. Phenol (108-05-2)  11A. 2,4,6-Tri- chlorophenol (88-06-2)  1B. Acena- phthene	7A. 4-Nitro- phenol (100-02-7)			×									
(59-50-7) X X  Pentachloro- phenol (87-88-5)  10A. Phenol (108-05-2)  11A. 2.4,6-Tri- chlorophenol (88-06-2)  GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS  1B. Acena- phthene	8A. P-chloro-m- cresol												
Pentachloro- phenol (87-88-5)  10A. Phenol (108-05-2)  11A. 2,4,6-Tri- chlorophenol (88-06-2)  GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS  11B. Acena- phthene	(59-50-7)			×				+					
10A. Phenol	Pentachloro-			*									
10A. Phenol	(87-88-5)			*									
11A. 2,4,6-Trit-chlorophenol	10A. Phenol (108-05-2)			×									
(88-06-2) X  GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS  1B. Acena- phthene	11A. 2,4,6-Tri- chlorophenol			•									
1B. Acena- phthene	GC/MS FRACT	ION - BASE	NEUTRAL	COMPOU	NDS			-					
	1B. Acena- phthene			!			:						

Part C - Continued	٩	,												
		2. MARK "X"				3. EFFLUENT	ENT				4. UNITS		5. INTAKE (optional)	tional)
And CAS NO.	a.	Relieved.	b.	A. Parimum Daily Value		b. Maximum 30-Day	) ay	c. Long-Term Avg.	ů.	e d.	a.	ş p	a. Long-Term Avg Value	b. No. of
(if available)	Required	Present	Absent	(1) Concentration		(1) Concentration		(1) Concentration	M <sub>2</sub> (2)	Analyses			(1) (2) Concentration Mass	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (Continued)	)N – BASE/I	NEUTRAL	COMPOUN	DS (Continued)	ŀ	-	ŀ	. F					}	
2B. Acena-														
(208-96-8)			×											
3B. Anthra-														
cene (120-12-7)			×											
4B.														
(92-87-5)			×											
5B. Benzo(a)-														
anthracene (56-55-3)			×											
6B. Benzo(a)-														
pyrene (50-32-8)			×											
7B. 3,4-Benzo-														
fluoranthene (205-99-2)			×											
8B. Benzo(ghl)														
perylene (191-24-2)			×											
9B. Benzo(k)-														
Huoranthene (207-08-9)			×											
10B. Bis(2-														
oethoxy)-			×											
methane (111-91-1)														
IIB. Bis														
oisopropyl)-			×											
12B. Bis														
hexyl)-			×											
phthalate														

Part C - Continued	ed														
<b>.</b>		2. MARK "X"				EFF	3. EFFLUENT				4. UNITS		INTAK	5. INTAKE (optional)	<del>-</del>
POLLUTANT And CAS NO.		a.	.d	'n		b. Maximum 30-Day	0-Day	c. Long-Term Avg.	Avg.	Ġ.	je e	<b>5</b>	a. Long-Term Avg Value	Value	b. No. of
(if available)	Testing	Believed	Believed	Maximum Daily Value	Value	Value (if avai	lable)	Value (if available)	able)	No. of	Concentration	Mass			Analyses
(п атапарк)	Veduned	Liesent	Absent	(1) Concentration	Mass	(1) Concentration	Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	Mass	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (Continued)	ON - BASE/I	NEUTRAL	COMPOUN	DS (Continued)											
13B. 4-Bromo-					i										
phenyl ether			<b>‹</b>												
(101-55-3)			>												
14B. Butyl-															
benzyl															
phthalate (85-68-7)			×												
15B. 2-Chloro-															
naphthalene (7005-72-3)			×												
16B. 4-Chloro-															
phenyl			<												
(7005-72-3)			^												
17B. Chrysene															
(218-01-9)			×												
18B. Dibenzo-							ì								
Anthracene			×												
19B 1.2-				et sub											
Dichloro-															
benzene (95-50-1)			×												
20B. 1,3-															
Dichloro-			۲												
(541-73-1)			>												
21B. 1,4-															
benzene			× 												
(106-46-7)			;												
22B. 3,3-															
benzidene			× 												
(91-94-1)															
23B. Diethyl													,		
(84-66-2)			×												

Part C - Continued															
<b>;</b>		2. MARK "X"				EFF	3. EFFLUENT				4. UNITS		INTAK	5. INTAKE (optional)	<i>5</i>
POLLUTANT And CAS NO.		2.		a.		b. Maximum 30-Day	)-Day	c. Long-Term Avg.	Avg.	d.	a.	ъ.	a. Long-Term Avg. Value	. Value	
(if available)	Required	Present	Absent	(1) (2) Concentration Mass	(2)	(1) (2) Concentration Ma	(2) Mass	(1) (2) Concentration Ma	(2)	Analyses			(1)	(2) Mass	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (Continued)	ON – BASE/I	VEUTRAL (	COMPOUN	DS (Continued)											
24B. Dimethyl															
Phthalate (131-11-3)			×												
25B. Di-N-															
(84-74-2)			×												
26B. 2.4-Dinitro-			1 to 1 to 1 to 1												
toluene (121-14-2)			×												
27B. 2,6-Dinitro-															
toluene (606-20-2)			×										i e		
28B. Di-n-octyl Phthalate															
(117-84-0)			×												
29B. 1,2- diphenyl-															
hydrazine (as			×											_	
(122-66-7)															
30B.			*****											_	
(208-44-0)			×												
31B. Fluorene															
(86-73-7) 32B.			×												
Hexachloro-			<b>.</b>												
benzene (118-71-1)			×												
33B. Hexachloro-															
butadiene (87-68-3)			×												
34B.															
cyclopenta-			×												
diene (77-47-4)															

Part C - Continued	ed														
r		2. MARK "X"				મિત્રસ	3. EFFLUENT				4. UNITS		INTAKE	5. INTAKE (optional)	
POLLUTANT And CAS NO.	я.	a.	b.	e e		b. Maximum 30-Day	)-Dav	c. Long-Term	Avg.	d.	e e	<b>.</b>	a. Long-Term Avg Value	Value	No. of
	Testing	Believed	Believed	Maximum Daily Value	Value	Value (if available)	able)	Value (if available)	ıble)	No. of	Concentration	Mass	a		Analyses
(if available)	Required	Present	Absent	(1) Concentration	Mass	(1) Concentration	(2) Mass	(1) Concentration	Mass	Analyses			(1) Concentration	(2) Mass	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (Continued)	ON - BASE/	NEUTRAL	COMPOUN	DS (Continued)											
35B. Hexachlo-															
(67-72-1)			×												
36B. Indneo-															
(1,2,3-oc)-			<								*****				
Pyrene (193-39-5)			>												
37B.															
(78-59-1)			×												
38B.															
(91-20-3)			×												
39B. Nitro-															
benzene			×												
(98-95-3)															
dimethyl-															
amine			×												
(62-75-9)															
N-nitrosodi-n-															
propylamine			×												
(021-04-7)															
42B. N-nitro- sodiphenyl-															
amine			×												
(86-30-6)															
43B. Phenan-															
(85-01-8)			×												
11D P.															
44B. Pyrene (129-00-0)			×												
45B. 1,2,4 Tri-															
chloro-			≺												
(120-82-1)			>												

Testing   Believed   Believed   Maximum Dally Yalue   D. Maximum 30-Day   C. Long-Term Arg.   No. of Required   Present   Absent   (1)   (2)   (2)   (1)   (2)   (2)   (1)   (2)   (2)   (1)   (2)   (2)   (1)   (2)   (2)   (1)   (2)   (2)   (2)   (2)   (1)   (2)	1.		2. MARK "X"				EFF	3. EFFLUENT				4. UNITS		1 ]	INTAK	5. INTAKE (optional)
Required   Present   Absent   Concentration   Mass   Concentration   Mass   Concentration   Mass   Concentration   Mass   Concentration   CD   CD   CD   CD   CD   CD   CD   C	And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Daily	Value	b. Maximum 3 Value (if avai	0-Day	c. Long-Term Value (if avail	Avg.	d.	a. Concentration	tion ————	b.	b. Long-T	b. Long-T
TION-PESTICIBES  X X X X X X X X X X X X X X X X X X X	(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses					
	GC/MS FRACTI	ON - PESTI	CIDES													┨╏
	1P. Aldrin (309-00-2)			×												
	2P. α-BHC (319-84-6)			×												
	3P. β-BHC (58-89-9)			×												
	4P. gamma-BHC (58-89-9)			×						-10-2-						
	5P. &-BHC (319-86-8)			×												
an l	6P. Chlordane (57-74-9)			×												
an l	7P. 4,4'-DDT (50-29-3)			×												
ап	8P. 4,4'-DDE (72-55-9)			×												
an	9P. 4,4'-DDD (72-54-8)			×												
Ifan	10P. Dieldrin (60-57-1)			×												
llfan	11P. α- Endosulfan (115-29-7)		844	×												
dosulfan	12P. β- Endosulfan (115-29-7)			x			:									
	13P. Endosulfan Sulfate (1031-07-8)			×									W1	47		

Part C Continued  1.		2. MARK "X"				EFF	3. EFFLUENT				4. UNITS			NTAKI	5. INTAKE (optional)
S NO.	a.	a.	b.	a.	Value	b. Maximum 30-Day	0-Day	c. Long-Term Avg.	Avg.	d.	a.	b.	Long-T	a. erm Avg	a. Long-Term Avg Value
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	tion	(2) Mass
GC/MS FRACTION - PESTICIDES	N - PESTI	CIDES													╽┠
15P. Endrin Aldehyde															
(7421-93-4)			×												
16P Heptachlor (76-44-8)			×												
17P. Heptaclor Epoxide (1024-57-3)			×												
18P. PCB-1242 (53469-21-9)			Х												
19P. PCB-1254 (11097-69-1)			×												
20P. PCB-1221 (11104-28-2)			×												
21P. PCB-1232 (11141-16-5)			×												
22P. PCB-1248 (12672-29-6)			×												
23P. PCB-1260 (11096-82-5)			×												
24P. PCB-1016 (12674-11-2)			×												
25P. Toxaphene			X								4.1.23				

# Alden Resources LLC KDSMRE Permit Number 861-0494 KPDES Form C

# APPENDIX A

Outfall No.	]	LATITUDE	3	L	ONGITUD	E	RECEIVING WATER
(list)	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds	(name)
001B	36	51	06	83	56	50	UT to Big Indian Creek (Engle Hollow)
003	36	50	51	83	56	33	Bull Run
004	36	50	44	83	56	27	Bull Run
005	36	50	46	83	57	25	UT to Big Indian Creek (Engle Hollow)
006	36	50	50	83	57	17	UT to Big Indian Creek (Engle Hollow)
007	36	50	56	83	57	00	UT to Big Indian Creek (Engle Hollow)

# Alden Resources LLC KDSMRE Permit Number 861-0494 KPDES Form C

# APPENDIX B

	OPERATION(S) CON	NTRIBUTING TO FLOW	TREAT	MENT
OUTFALL NO. (list)	Operation (list)	Avg/Design Flow (include units)	Description	List Codes from Table C-1
001B	Sediment Pond	4.375 acre/feet	Onsite distribution	1-U
003	Sediment Pond	2.792 acre/feet	Onsite distribution	1-U
004	Sediment Pond	5.772 acre/feet	Onsite distribution	1-U
005	Sediment Pond	0.804 acre/feet	Onsite distribution	1-U
006	Sediment Pond	0.80 acre/feet	Onsite distribution	1-U
007	Sediment Pond	1.545 acre/feet	Onsite distribution	1-U